

# ***Deep Space Network Operations and Maintenance***

## **Request for Proposal**

## **Industry Briefing**

**February 18-20, 2003**



**National Aeronautics and  
Space Administration**

**JPL**

**California Institute of Technology  
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Pasadena, California 91001**



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Contract Overview**



## Topics

- Purpose and Scope of Meeting
- The Deep Space Network (DSN)
- DSN Operations & Maintenance Contract Scope
- DSN O & M Contract – Key Features
- Sample Illustrations – Award Term
- Award Term and Award Fee Determination Table
- Key Acquisition Milestones
- Other General Information



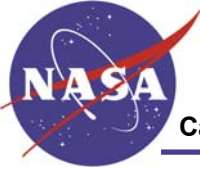
## Purpose and Scope of Meeting

- Briefings
  - Provide a Context for the RFP
    - Overview of the Deep Space Mission System (DSMS)
    - The Organization
    - How the contract work fits within the DSMS
    - Overview of the Statement of work
  - JPL briefing covers everything but Goldstone details which will be briefed prior to Goldstone tour
- Tours
  - Opportunity for bidders to see the current operations environment
- Meetings with the Primes
  - To address any specific issues of interest about the contract



## The Deep Space Network

- World-wide network that provides telecommunications capability to NASA's spacecraft, principally in deep space, and also in high-Earth orbits.
- The network consists of
  - 3 tracking facilities consisting of a number of large sensitive antennas and the associated equipment for signal processing called Deep Space Communications Complexes (DSCCs)
    - Goldstone DSCC (GDSCC), at Ft Irwin, near Barstow, CA
    - Madrid DSCC (MDSCC), at Robledo, near Madrid, Spain
    - Canberra DSCC (CDSCC), at Tidbinbilla, near Canberra, Australia
  - A network operations control center located at JPL has connections to the 3 complexes.
  - Additionally, test facilities are located near JPL



## DSN Operations & Maintenance Contract Scope

- The DSN Operations & Maintenance Contract covers
  - GDSCC Operations & Maintenance
  - Network Operations Control Center Operations & Maintenance
  - Test facilities Operations and Maintenance
  - Other Network Operations functions

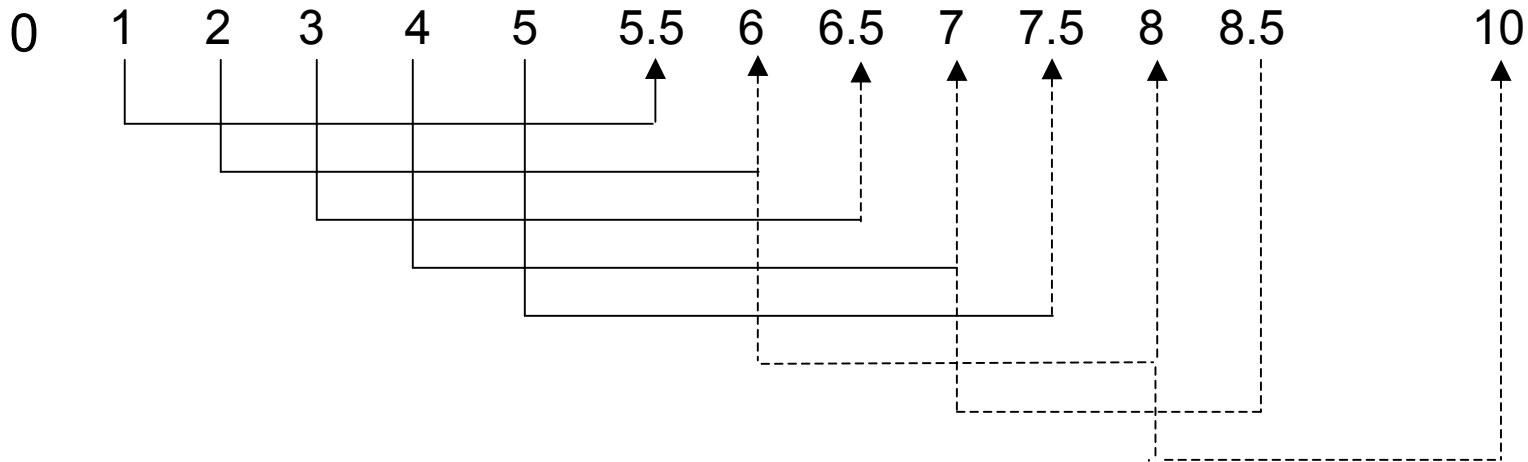


## DSN O & M Contract – Key Features

- This is a hybrid contract
  - Cost Plus Fixed Fee (70%), Award fee (30%) with Performance based Award Term (6 months)
  - The contract has a 5-year base period, with a provision to extend or reduce term in 6-month intervals based on performance
  - Evaluation period for the Award term and Award fee is once per year
  - Performance evaluation criteria for extending the contract term:
    - Cost Performance
    - Schedule performance
    - Safety Health and Environment
    - Property Management
    - GDSCC performance
    - Network Operations
    - Network Readiness
    - Network Engineering
    - Customer satisfaction
    - Logistics
  - Contract will also have a “value Engineering” provision



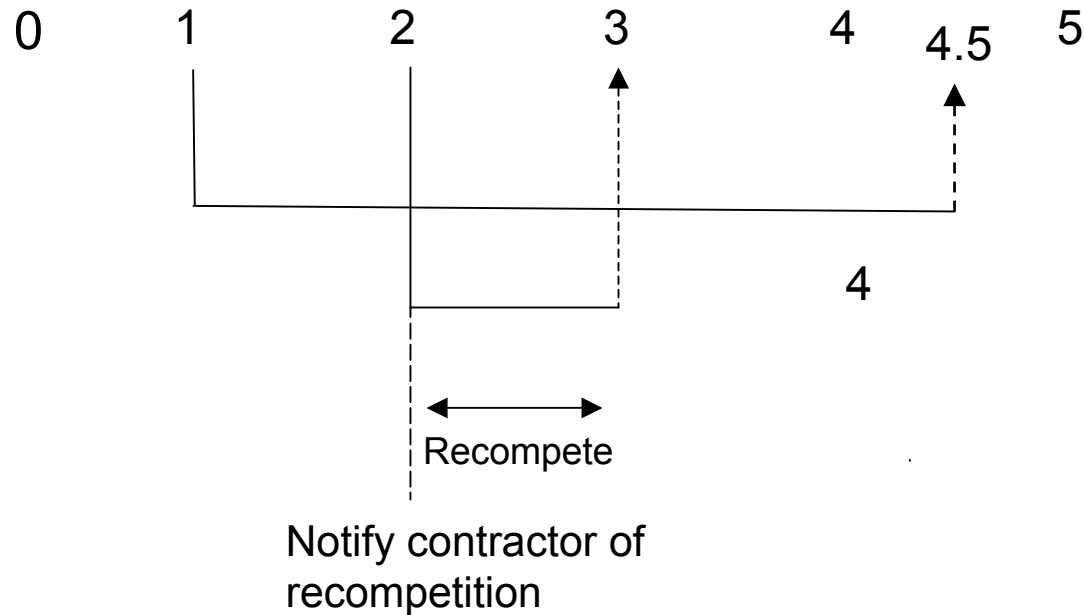
## Sample Illustration – Maximum Term Award (Best Case)



- Contract performance is superior during each evaluation period for 8 years
  - The Contract Term would extend to 10 years
  - The evaluation in year 8 will yield an additional term of 1.5 years



## Sample Illustration – Term Reduction (Worst Case)



- Contract performance is unacceptable two years in a row from start
  - The Contract Term would reduce to 3 years
  - The reduction in term for the first year is 6 months and 1.5 years for the second year





## Award Term & Award Fee Determination Table

### Areas Of Emphasis (AOE) Rating

		Excellent	Very Good	Adequate	Poor
Standard of Excellence (SOE) Metrics	Exceeds	100% AF +6 mo	2/3 AF +6 mo	1/3 AF +0 mo	0 AF 0 mo
	Meets	100% AF +0 mo	2/3 AF + 0 mo	1/3 AF +0 mo	0 AF -6 mo
	Below	0 AF -6 mo	0 AF - 6 mo	0 AF - 6 mo	0 AF - 6 mo



## Key Acquisition Milestones

- Draft RFP Release 14 February 2003
- Industry Briefing 18 February 2003
- Facility Tour – JPL and Vicinity 18 February 2003
- Facility Tour – Goldstone 19 February 2003
- Contractor Meetings 20, 21 February 2003
- RFP Release 6 March 2003
- Proposals Due 11 April 2003
- Discussions/Negotiations/FPR August/ September 2003
- Source Selection/Contract Execution 1 October 2003



## Other Information

- On the Web <http://acquisition.jpl.nasa.gov/rfp/dsno&m>
  - RFP
  - Specimen Contract
  - Task Description Document (TDD)
  - Metrics
  - WBS
- Briefing material will be posted on the Web
- Supporting documentation will be provided on CDs to Primes
  - Will require signing a non-disclosure agreement